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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9376		
10/630,715		07/31/2003	Seung Pun Ho	1928-0153P			
2292	7590	12/15/2003		EXAMINER			
BIRCH ST PO BOX 74		KOLASCH &	COMAS, YAHVEH				
FALLS CHU	JRCH, V	A 22040-0747	ART UNIT	PAPER NUMBER			
				2834			

DATE MAILED: 12/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			Applicati n No.	plicati n No. Applicant(s)						
Office Action Summary			10/630,715		HO ET AL.					
			Examiner		Art Unit					
			Yahveh Comas		2834					
Ti Peri df r R	ne MAILING DATE of this commun eply	nication app	ars on the c ver s	heet with the co	orresp nd nce ac	idress				
THE MAII  - Extensions after SIX (i  - If the period  - If NO period  - Failure to i  - Any reply r	ENED STATUTORY PERIOD F LING DATE OF THIS COMMUN of time may be available under the provisions of MONTHS from the mailing date of this coming of for reply specified above is less than thirty (3 of for reply is specified above, the maximum steply within the set or extended period for reply eceived by the Office later than three months, and term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.13 munication. 30) days, a reply tatutory period wi y will, by statute, w	6(a). In no event, howeve within the statutory minimu ill apply and will expire SIX cause the application to be	r, may a reply be time um of thirty (30) days ( (6) MONTHS from t	ely filed will be considered time he mailing date of this c	ly. xommunication.				
1)□ Res	sponsive to communication(s) file	ed on	·							
2a)∐ Thi	s action is FINAL.	2b)⊠ This a	ection is non-final.							
3)∏ Sinclos	ce this application is in condition sed in accordance with the practi	for allowandice under Ex	ce except for forma	al matters, pros 35 C.D. 11, 45	secution as to the 3 O.G. 213.	e merits is				
Disposition (	of Claims									
4)⊠ Cla	m(s) <u>1-7</u> is/are pending in the ap	oplication.								
	Of the above claim(s) is/a	-	n from considerati	on.						
	Claim(s) is/are allowed.									
.6)⊠ Cla	m(s) 1-7 is/are rejected.									
7) <u></u> Cla	Claim(s) is/are objected to.									
8) <u></u> Cla	m(s) are subject to restric	ction and/or	election requireme	ent.						
Application I	Papers									
9) <u></u> The	specification is objected to by th	e Examiner								
10)⊠ The	drawing(s) filed on <u>31 July 2003</u>	≀is/are: a)[	brace accepted or b) $ brace$	objected to by	y the Examiner.					
Арр	icant may not request that any obje	ction to the d	rawing(s) be held in	abeyance. See	37 CFR 1.85(a).					
	lacement drawing sheet(s) including									
11)[_] The	oath or declaration is objected to	by the Exa	aminer. Note the at	ttached Office	Action or form P	ΓΟ-152.				
Priority unde	r 35 U.S.C. §§ 119 and 120									
a)⊠ Al 1.⊠	nowledgment is made of a claim    b)	documents	have been receive	ed.						
3.	Certified copies of the priority Copies of the certified copies application from the Internation	of the prioritional Bureau	ty documents have (PCT Rule 17.2(a)	e been receive )).	d in this National	Stage				
13)∏ Ackno since	ne attached detailed Office action whedgment is made of a claim for a specific reference was include R 1.78.	or domestic	priority under 35 l	J.S.C. § 119(e	) (to a provisiona	l application) Data Sheet.				
	The translation of the foreign lar	nguage prov	risional application	has been rece	eived.					
14) Ackno	owledgment is made of a claim fince was included in the first sen	or domestic	priority under 35 t	J.S.C. §§ 120 a	and/or 121 since	a specific CFR 1.78.				
Attachment(s)										
	eferences Cited (PTO-892)		4) 🗍 Inte	erview Summan/	PTO-413) Paper No(	(8).				
2) 🔲 Notice of D	raftsperson's Patent Drawing Review (F		5) 🔲 No		itent Application (PT					
3) 🔀 Informatior	Disclosure Statement(s) (PTO-1449) P	aper No(s) 110	<u>03</u> . 6) 🗌 Ott	ner: .						

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### **DETAILED ACTION**

## **Drawings**

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: reference no. 31. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1- 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Wang U.S. Patent No. 4,859,893.

An electric motor having a wound rotor (3) and a stator, the rotor (3) having a rotor core mounted on a shaft (2) a commutator (20) mounted on the shaft (2) adjacent one end of the rotor (3) core and rotor windings wound around the rotor core and connected to terminals (23) of the commutator (23), and a fan for generating a flow of cooling air, wherein the commutator (20) has a base and a plurality of commutator segments (22) fixed to the base, each segment having a brush contact portion and a terminal and the base having a support portion supporting the brush contact portion of the segments and a terminal portion (21) supporting the terminals (23) and wherein the fan has an integral inner collar (27) from which a plurality of fan blades (29) extend,

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the collar (27) being fitted to the terminal portion (23). The collar (27) is fixed to the terminal portion (21) by complementary formations including snap-fit detents. The commutator is a cylindrical type commutator. The terminals (23) of the commutator segment (22) are insulation displacing type terminal and the terminal portion (21) has a plurality of housings in which the terminal (23) and lead wires of the rotor winding are received. Also the complementary formation further include blade like projections (32) extending radially from the terminal portion (21) which engage slots in the collar to prevent circumferential movement of the collar about the terminal portion (21), wherein the terminal portion (21) has a plurality of housings accommodating the terminals and the snap-fit detent include at least one projection formed on each housing.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang U.S. Patent No. 4,859,893.

Wang discloses the claimed invention except for the terminal portion and the support portion of the base are separate parts. It would have been obvious to one having ordinary skill in the art at the time the invention was made to separate the support portion and the base, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. Nerwin v. Elichman, 168 USPQ 177, 179.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yahveh Comas whose telephone number is (703) 305-3419. The examiner can normally be reached on M - F 8:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

YC

BURTON S. MULLINS PRIMARY EXAMINER